09/724,613

```
 * * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:21:14 ON 29 AUG 2005

=> file biosis medline caplus wpids uspatfull
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'BIOSIS' ENTERED AT 11:21:27 ON 29 AUG 2005
Copyright (c) 2005 The Thomson Corporation

FILE 'MEDLINE' ENTERED AT 11:21:27 ON 29 AUG 2005

FILE 'CAPLUS' ENTERED AT 11:21:27 ON 29 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 11:21:27 ON 29 AUG 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'USPATFULL' ENTERED AT 11:21:27 ON 29 AUG 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

*** YOU HAVE NEW MAIL ***

=> s whole tissue and cationic (4a)surfactant?
L1            12 WHOLE TISSUE AND CATIONIC (4A) SURFACTANT?

=> s l1 and protease
L2             9 L1 AND PROTEASE

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3             6 DUP REM L2 (3 DUPLICATES REMOVED)

=> d l3 bib abs 1-6

L3   ANSWER 1 OF 6  WPIDS  COPYRIGHT 2005 THE THOMSON CORP on STN DUPLICATE 1
AN   2005-099961 [11]   WPIDS
CR   2003-370730 [35]
DNN  N2005-086813       DNC C2005-033420
TI   Isolating nucleic acids from a biological sample by combining the sample
     with at least one cationic surfactant, at least one
     protease, and a buffer, to form a reaction composition.
DC   A89 B04 D16 P53
IN   GREENFIELD, L; MONTESCLAROS, L
PA   (APPL-N) APPLERA CORP
CYC  1
PI   US 2005009045   A1 20050113 (200511)*      58
ADT  US 2005009045 A1 CIP of US 2000-724613 20001128, Cont of US 2001-997169
     20011128, US 2004-800137 20040311
FDT  US 2005009045 A1 Cont of US 6762027
PRAI US 2001-997169       20011128; US 2000-724613       20001128;
     US 2004-800137       20040311
AN   2005-099961 [11]   WPIDS
CR   2003-370730 [35]
AB   US2005009045 A UPAB: 20050217
     NOVELTY - Isolating nucleic acids from a biological sample comprising
     combining the sample with at least one cationic
     surfactant, at least one protease, and a buffer, to form
     a reaction composition, incubating the reaction composition at a
     temperature suitable for releasing nucleic acid from the biological
     sample, and isolating the released nucleic acid, is new.
          DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
          (1) releasing nucleic acids from a biological sample, comprising:
          (a) combining the sample with at least one cationic
```

surfactant, at least one **protease**, and a buffer, to form a reaction composition; and

(b) incubating the reaction composition at a temperature suitable for releasing the nucleic acids from the biological sample; and

(2) a kit for obtaining nucleic acid from a biological sample comprising at least one **cationic surfactant** and at least one **protease**.

USE - The methods and compositions of the present invention are useful for isolating and releasing nucleic acids from biological samples, including **whole tissue**.

ADVANTAGE - The methods of isolating nucleic acids in the present invention, as compared to prior art, reduces the time needed for sample preparation, decreases potential safety risks posed by multi-step procedures and provides high integrity high molecular weight nucleic acids.

Dwg.0/30

L3 ANSWER 2 OF 6 USPATFULL on STN
AN 2005:93362 USPATFULL
TI Treatment of tissue, instruments and work surfaces to remove infectious agents
IN Cunanan, Crystal M., Mission Viejo, CA, UNITED STATES
Dinh, Tan Thanh, Fountain Valley, CA, UNITED STATES
Loshbaugh, Christine, Irvine, CA, UNITED STATES
Sarner, H. Chris, Laguna Hills, CA, UNITED STATES
Helmus, Michael N., Worcester, MA, UNITED STATES
PI US 2005080040 A1 20050414
AI US 2004-959549 A1 20041005 (10)
RLI Division of Ser. No. US 2001-930619, filed on 15 Aug 2001, ABANDONED
DT Utility
FS APPLICATION
LREP John Christopher James, Edwards Lifesciences LLC, Law Dept., One Edwards Way, Irvine, CA, 92614, US
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1261
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides methods of inactivating and removing infectious agents from tissues of use in bioprosthetic devices. The methods include the removal and blockage of binding sites on the tissues for the infectious agents. Also provided are methods for blocking a site on an infectious agent that binds to a site on the tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 6 USPATFULL on STN
AN 2003:71989 USPATFULL
TI Treatment of tissue, instruments and work surfaces to remove infectious agents
IN Cunanan, Crystal M., Mission Viejo, CA, UNITED STATES
Dinh, Tan Thanh, Fountain Valley, CA, UNITED STATES
Loshbaugh, Christine, Irvine, CA, UNITED STATES
Sarner, H. Chris, Laguna Hills, CA, UNITED STATES
Helmus, Michael N., Worcester, MA, UNITED STATES
PI US 2003050276 A1 20030313
AI US 2001-930619 A1 20010815 (9)
DT Utility
FS APPLICATION
LREP Edwards Lifesciences LLC, Law Dept., One Edwards Way, Irvine, CA, 92614
CLMN Number of Claims: 49
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1331
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides methods of inactivating and removing infectious agents from tissues of use in bioprosthetic devices. The methods include the removal and blockage of binding sites on the tissues

for the infectious agents. Also provided are methods for blocking a site on an infectious agent that binds to a site on the tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
AN 2002:869079 CAPLUS
DN 137:365972
TI Isolation of nucleic acids from biological samples using surfactants and proteases
IN Greenfeld, I. Larry
PA PE Corporation, USA; Applera Corporation
SO PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002090539	A2	20021114	WO 2001-US45071	20011128
	WO 2002090539	A3	20030807		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2429941	AA	20021114	CA 2001-2429941	20011128
	EP 1354036	A2	20031022	EP 2001-274041	20011128
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2005501523	T2	20050120	JP 2002-587600	20011128
PRAI	US 2000-724613	A	20001128		
	WO 2001-US45071	W	20011128		

AB The invention relates to compns. and methods for isolating nucleic acids from biol. samples, including **whole tissue**. The method comprises contacting the biol. sample with a disrupting buffer containing proteases (e.g., Proteinase K) and a **cationic surfactant** (e.g., CTAB). The **cationic surfactant** is then neutralized either by its removal or by use of a second nonionic surfactants (e.g., Tween 20). Nucleic acids are then isolated by binding to a solid phase, such as glass fiber GF/B filters. The effects of **cationic surfactants** on activity of proteinase K, and the solubility of surfactants in different chaotropes is investigated to identify optimal **cationic surfactants** and salts. The invention also provides kits for isolating nucleic acids from biol. samples.

L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
AN 2002:907069 CAPLUS
DN 138:1959
TI Compositions, methods, and kits for isolating nucleic acids using surfactants and proteases
IN Greenfield, Lawrence; Montesclaros, Luz
PA Applera Corp., USA
SO U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 724,613.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002177139	A1	20021128	US 2001-997169	20011128
	US 6762027	B2	20040713		

US 2005009045 A1 20050113 US 2004-800137 20040311
PRAI US 2000-724613 A2 20001128
US 2001-997169 A1 20011128
AB The invention relates to compns. and methods for isolating nucleic acids from biol. samples, including **whole tissue**. The invention also provides kits for isolating nucleic acids from biol. samples. A method for obtaining nucleic acid from a biol. sample and binding the nucleic acid to a solid phase comprises (a) contacting the biol. sample with a disrupting buffer, wherein the disrupting buffer comprises a **protease** and a **cationic surfactant** ; (b) substantially neutralizing the **cationic surfactant** ; and (c) binding the nucleic acid to a solid phase. Genomic DNA was isolated from several rat tissues and mouse tail using a digestion solution containing 1 mg of Proteinase K, 1 % DTAB, 100 mM Tris-HCl (pH 8.0), 20 μM ATA, and 20 mM CaCl2 and incubating for 60 min at 65°. Most of the tissues were effectively digested in less than one hour. Digestion of liver, brain and kidney were about 95 % complete after one hour. Following digestion, binding solution containing 5 M GuSCN, 50 mM MES (pH 6.0), 20 mM EDTA, and 6 % Tween 20 was then added to each sample and the samples were placed on GF/B filter membranes for washing and recovery of DNA.
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 6 USPATFULL on STN
AN 2002:251081 USPATFULL
TI Methods for preparation of bioprosthetic tissue and implantable devices comprising such bioprosthetic tissue
IN Cunanan, Crystal M., Mission Viejo, CA, UNITED STATES
Dinh, Tan Thanh, Fountain Valley, CA, UNITED STATES
Loshbaugh, Christine, Irvine, CA, UNITED STATES
Sarner, H. Chris, Laguna Hills, CA, UNITED STATES
Helmus, Michael N., Worcester, MA, UNITED STATES
Cabiling, Christine M., Tustin, CA, UNITED STATES
PI US 2002137024 A1 20020926
AI US 2001-4624 A1 20011101 (10)
RLI Continuation-in-part of Ser. No. US 2001-930619, filed on 15 Aug 2001, PENDING
PRAI US 2000-244889P 20001101 (60)
DT Utility
FS APPLICATION
LREP Edwards Lifesciences LLC, Law Dept., One Edwards Way, Irvine, CA, 92614
CLMN Number of Claims: 60
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1761
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods of inactivating and removing infectious agents from tissues of use in bioprosthetic devices. The methods include the removal and blockage of binding sites on the tissues for the infectious agents. Also provided are methods for blocking a site on an infectious agent that binds to a site on the tissue. The invention also provides a method for preventing or reducing the calcification of a bioprosthetic tissue. The method includes removing or blocking a phospholipid calcium nucleation site from the tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>